

Serial No. 09/235,155

-- 27. The small footprint device of claim 26 in which said context can access at least one other program module even though it is located in a different name space.--

-- 28. The small footprint device of claim 1 in which said context allocates separate memory spaces for each program module.--

-- 29. The small footprint device of claim 28 in which said context can access at least one program module even though it is located in a different memory space.--

-- 30. The small footprint device of claim 1 in which said context barrier enforces security checks on at least one of a principal, an object and an action.--

-- 31. The small footprint device of claim 30 in which at least one security check is based on partial name agreement between a principal and an object.--

-- 32. The small footprint device of claim 31 in which said context can access at least one other context without said at least one security check.--

-- 33. The small footprint device of claim 30 in which at least one security check is based on memory space agreement between a principal and an object.--

Serial No. 09/235,155

-- 34. The small footprint device of claim 33 in which said context can access at least one other context without said at least one security check.--

-- 35. A method of operating a small footprint device, comprising the step of separating program modules using a context barrier and permitting one context access to at least one other context without context barrier constraints.--

-- 36. The method of claim 35 in which the context barrier will not permit a principal to perform an action on an object unless both principal and object are part of the same context or the principal is part of said one context.--

-- 37. A method of permitting access to information on a small footprint device from a first program module to a second program module separated by a context barrier, comprising the step of creating a context having access to all program modules without context barrier constraints.--

-- 38. The method of claim 14 in which said context is a supercontext.--

-- 39. A method of communicating across a context barrier separating program modules on a small footprint device, comprising the steps of:

a. creating a context having access to all program modules without context barrier constraints; and

Serial No. 09/235,155

b. permitting said context to access information of another program module across said context barrier.--

-- 40. A method of communicating across a context barrier separating program modules on a small footprint device, comprising the steps of:

a. creating a context having access to all program modules without context barrier constraints; and

b. permitting at least one program module to access information of another program module across said context barrier using said context.--

-- 41. A computer program product, comprising:

a. a memory medium; and

b. a computer controlling element comprising instructions for implementing a context barrier on a small footprint device and for giving one context access to all program modules without context barrier constraints.--

-- 42. The computer program product of claim 18, in which said medium is a carrier wave. --

- 43. A computer program product, comprising:
- a. a memory medium; and
  - b. a computer controlling element comprising instructions for separating a plurality of programs on a small footprint device by running them in respective contexts and for permitting one context to have access to all program modules without context barrier constraints.--
- 44. The computer program product of claim 43, in which said medium is a carrier wave.--
- 45. A carrier wave carrying instructions over a communications link for implementing an context having access to all program modules on a small footprint device without context barrier constraints.--
- 46. A carrier wave carrying instructions over a communications link for implementing a context barrier separating a plurality of programs on a small footprint device by running them in respective contexts and for permitting one context to access all programs without context barrier constraints.--
- 47. A method of transmitting code over a network, comprising the step of transmitting a block of code from a server, said block of code comprising instructions for implementing a context having access to all program modules for providing access across a context barrier.--